

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK2004/000399

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/00 C07K14/47 A01H5/00 A61K38/16 C12N15/11
A61P31/04 A23K1/17 C11D3/00 C07K7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K A01H A61K C12N A61P A23K C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, CHEM ABS Data, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WABNITZ P A ET AL: "Differences in the skin peptides of the male and female Australian tree frog Litoria splendida. The discovery of the aquatic male sex pheromone splendipherin, together with phe8 caerulein and a new antibiotic peptide caerin 1.10." EUROPEAN JOURNAL OF BIOCHEMISTRY / FEBS. JAN 2000, vol. 267, no. 1, January 2000 (2000-01), pages 269-275, XP002299046 ISSN: 0014-2956 See particularly abstract -----	1,3,5-26
X	WO 92/13881 A (LUMINIS PTY LTD) 20 August 1992 (1992-08-20) The whole document; see particularly Caerin 1 ----- -/--	1,3,5-26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

4 October 2004

Date of mailing of the international search report

- 9. 05. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>TOSSI A ET AL: "DESIGN OF SYNTHETIC ANTIMICROBIAL PEPTIDES BASED ON SEQUENCE ANALOGY AND AMPHIPATHICITY" EUROPEAN JOURNAL OF BIOCHEMISTRY, BERLIN, DE, vol. 250, no. 2, December 1997 (1997-12), pages 549-558, XP000978718 ISSN: 0014-2956 see particularly Table 1 -----</p>	1,3-26
A	<p>HONG E ET AL: "Solution structure of a designed amphipathic antimicrobial synthetic peptide, PGAA." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 5 OCT 2000, vol. 276, no. 3, 5 October 2000 (2000-10-05), pages 1278-1285, XP002299047 ISSN: 0006-291X The whole document; see particularly Fig.3 -----</p>	1,3-26

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 12 and 17 encompass a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1, 3-26 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1,3-26(all partially)

Polypeptide having antimicrobial activity comprising the amino acid sequence as set forth in SEQ ID NO. 2, DNA encoding it, its preparation, compositions and use

Inventions 2-36:claims 1,3-26(all partially)

Polypeptide having antimicrobial activity comprising the amino acid sequence as set forth in one of the SEQ ID NO. 3-37, DNA encoding it, its preparation, compositions and use

Invention 37: claim 2; claims 1,3-26(all partially)

Polypeptide having antimicrobial activity consisting of 18 aa and having a C-terminal extension RWL or comprising the amino acid sequence as set forth in one of the SEQ ID NO. 38-46, DNA encoding it, its preparation, compositions and use

INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/DK2004/000399

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9213881	A	20-08-1992	WO 9213881 A1	20-08-1992
			CA 2103703 A1	13-08-1992
			EP 0579611 A1	26-01-1994
			JP 6507602 T	01-09-1994
